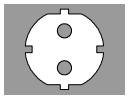

Chapter 1:

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1 General Information about ADC QS Server and Client

1.1 Hardware Setup

Position hardware devices according to the installation planning. To identify the different devices belonging together, find labels on it.

Each delivery contains a “Machine Passport ADC”. That passport informs about included and enabled licenses of the System.

Pay attention to BARCO Monitors, as monitor and board are matched during staging. They are labeled that way.

1.2 Controls and Connections of ADC QS Server and Client

Make sure that all necessary connections (power, network, monitors, serial ports, etc.) are plugged correctly. As PC hardware is a frequent matter of change, please refer to PC user manuals for control panels and connection diagrams.
Before you connect a PC to hospital network, make sure that there will be no IP_address conflict.

1.3 Default Settings of ADC QS Server and Client ex Factory

1.3.1 Power

1N~150/230V, 50/60 Hz (mains voltage adapts automatically)

1.3.2 Serial Ports

	Server	Client
COM 1	ID- Tablet	ID-Tablet
COM 2	UPS	Touch Panel
COM 3	Touch Panel	- not present -

1.3.3 Network Hardware

Network Card settings for FAST Ethernet (100 Mb/s, Twisted Pair) and 10 Mbit/s Ethernet connection (auto-sensing).

1.3.4 IP / DICOM Configuration Defaults

	Computer-/ Hostname	IP_address	DICOM AE_title	Station / Destination Name
Server	QS	192.9.200.212	QS	QS
Client 1	ADC_QS	192.9.200.202	- not used -	- not used -
Client 2	ADC_QS1	192.9.200.203	- not used -	- not used -
Client 3	ADC_QS2	192.9.200.204	- not used -	- not used -
ADC Solo	adcs1	192.9.200.199	ADCS1	ADCS1
ADC Compact Plus	adcc1	192.9.200.200	ADCC1	ADCC1
Printer	mg1	192.9.200.201	ADC_LR1	ADC_LR1
PACS-Destination	simas1	192.9.200.101	SIMAS1	IMPAX

No sub-net mask and no default router is defined.

1.3.5 Monitor Settings

	Resolution	Refresh rate
Standard VGA Monitor 17”	1024 x 768	85 Hz
LCD 15” + Standard Video Board	1024 x 768	60 Hz
LCD 15” + Standard Video Board (touch panel)	1024 x 768	60 Hz
LCD 18” + Standard Video Board	1268 x 1024	60 Hz
2MP Medis Landscape (Barco MGD2621L + Barco Video Board)	1600 x 1200	80 Hz
2MP Medis Portrait (Barco MGD2621P + Barco Video Board)	1600 x 1200	80 Hz

1.3.6 Licenses

According to order

1.3.7 Regional Settings

Country specific; according to order

1.4 Released Configurations

Clients per Server:

Three Clients per Server

Digitizers per Server:

Three ADC Solos per Server
or
One ADC Solo and one ADC Compact Plus (or one ADC Compact)
or
Two ADC Compact Plus (or two ADC Compact)

Only one of the above mentioned combinations is allowed per Server.
Total image input rate must not exceed 120 images / hour.

2 Set-up of the ADC QS Server Station

As the ADC QS Server Station is staged in AGFA, all the necessary Software is preloaded and the system is ready to work. On site software installation after setup is not necessary.

2.1 Login to the ADC QS Server Station

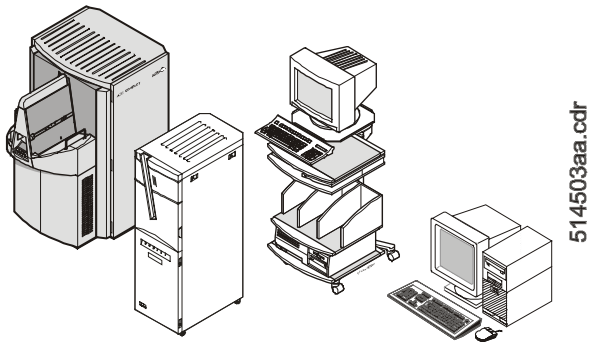
(1) Switch on the ADC QS Server Station.
As ADC QS Server is set to auto-logon to NT, the login window of the ADC QS Application will appear at the end of the boot sequence.

(2) Click <OK> to login. No username or password required.
The ADC QS application is ready for use now.

2.2 Integrating the ADC QS Server Station into an independent, pure ADC Network

In this case the ex factory settings are used.

A new configuration of the machine **is not** required.



2.3 Integrating the ADC QS Server Station into an existing Network

The following actions have to be performed to integrate the ADC QS Server into an already existing Network.

- Adapt “TCP / IP Protocol” settings in Windows NT
- Configure Devices (Digitizer, Gateway, Printer, Destination, ID-Viewer)
- Enter Site information

Please note that Service Manual only refers to English NT. If a different language is used please find the corresponding labels in your used language.

2.3.1 Adapt “TCP / IP Protocol” settings to Windows NT

(1) Stop ADC QS Application by clicking on Stop ADC QS icon on desktop

(2) Select
`<Start>`
`<Settings>`
`<Control Panel>`

(3) Select
`<Network>`
tab `<Identification>`
to change the computer name and confirm with `<OK>`.
It is not necessary to restart the computer.

(4) Select
`<Protocols>`
`<TCP/IP Protocol>`
`<Properties>`

(5) Select
tab `<IP-Address>`.
Select always `“Specify an IP_address”`.
Enter requested data: IP_address, subnet mask and default router if applicable.

Do never obtain the IP_address via DHCP as the CR readers rely on a fixed IP_address in the QS Server. With DHCP it may change, which would result in the effect that the digitizers are not able anymore to reach the ADC QS Server. The same goes for ADC QS Clients.

Be aware that the change of the computer name automatically changes also the hostname. The hostname is automatically filled in, written in lower case characters, but it has to be in caps. Therefore enter the hostname in caps.

(6) Select tab <DNS> and enter hostname in caps (key sensitive) to the same name as the computer name is.

(7) Click <Close> to accept changes

(8) Click <Yes> when you are asked to restart your computer. The IP_address is set now. ADC QS Server Station restarts.

(9) Login again

2.3.2 Configure Devices

There are two possibilities to do further device configuration on ADC QS Server:

- Configuration via ADC QS Configuration Viewer
- Configuration via CPF-file

2.3.2.1 Configuration via ADC QS Configuration Viewer

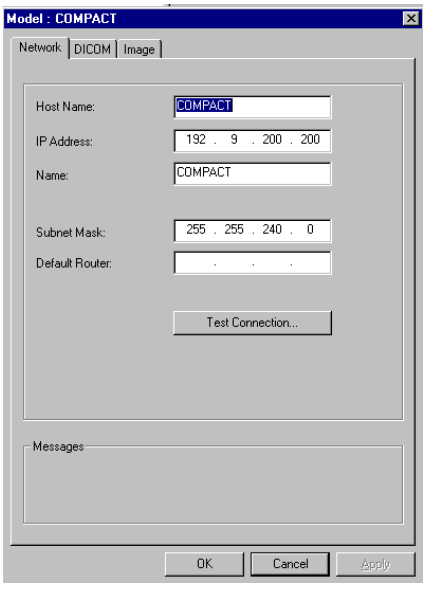
(10) To **Configure Digitizer** select at Configuration Viewer

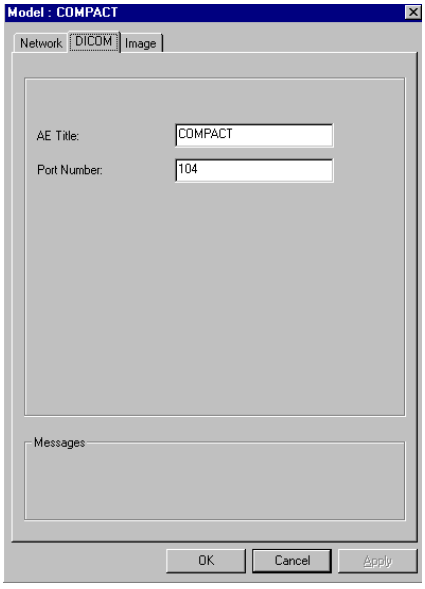
```
<Setup>
   <Devices>
      <Input Devices>
         <Digitizers>
```

(11) Double click on <Add new digitizer>

(12) Select digitizer model and click <Next>

(13) Enter network information at tab Network and AE Title at tab DICOM





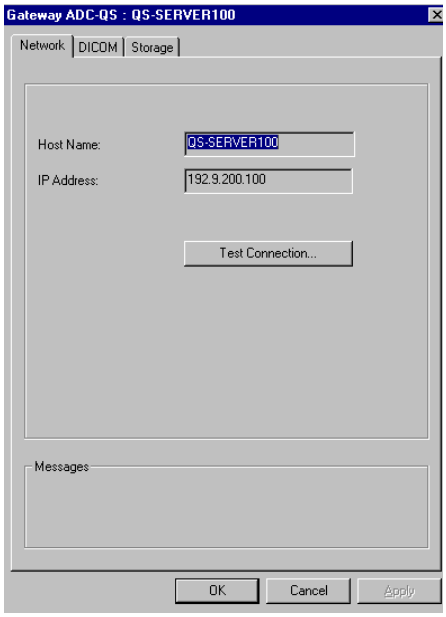
at tab Image the image type can be looked up.

(14) Click <Finish> to save configured digitizer

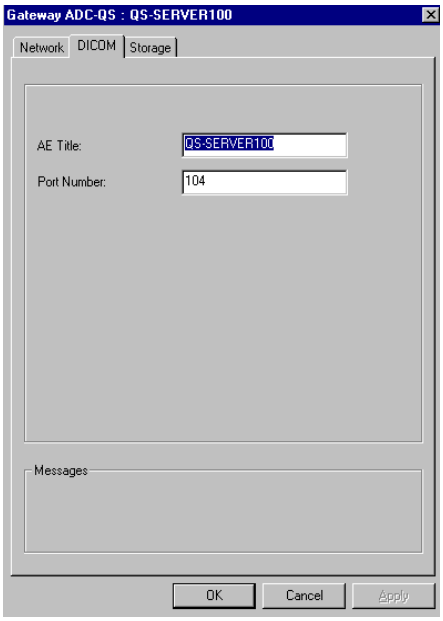
(15) To **Configure Gateway** select at Configuration Viewer
`<Setup>`
`<Devices>`
`<ADC QS>`

(16) Double click on host name of actual address e.g. `<QS_SERVER_10>`

(17) Check host name and IP-Address at tab `Network`. Network settings are taken over from “Windows NT Network Settings for Server”. To test TCP/IP connection you can press `<Test Connection…>` button.



(18) Enter AE Title at tab `DICOM`.



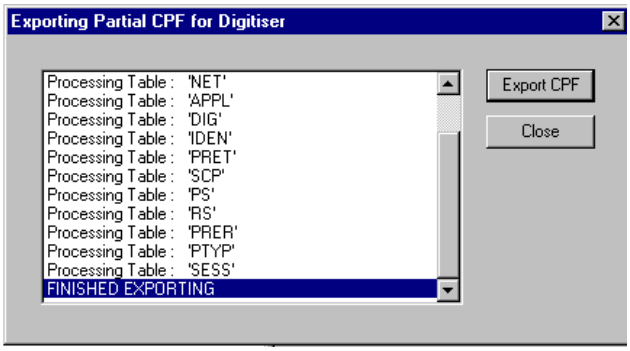
At tab `Storage` the storage path can be looked up.

(19) Click `<OK>`

(20) For **Digitizer Configuration** the Digitizer cpf-file (partial cpf-file) has to be exported. Therefore select at Configuration Viewer
`<File>`
`<Export AGFA Dicom Digitizer CPF>`

(21) Click `<Export CPF>` to browse respective folder, where the cpf-file should be saved at – e.g. A:\ to save on floppy.

(22) As the message appears that the exporting is finished, click `<Close>`



(23) Load the cpf-file to corresponding digitizer

(24) Reset ADC-QS Application to set new settings

(25) Usage of Configuration Viewer for further devices is described in "Configuration Viewer Software" - User Manual, included in chapter 3.2 of Service Documentation.

2.3.2.2 Configuration via CPF-file

Please note that the CPF-file import deletes all former configurations done with the Configuration Viewer. This can mean that a lot of work is destroyed (e.g. whole Study Tree, whole device configuration, dose monitoring statistics, etc. are deleted).
Therefore we advice to carry out CPF-file import only for initial setup. Thus you can save some work in building up a complete configuration tree. For changes later on the Configuration Viewer is the ideal tool.

For further information about configuration by means of CPF-file see chapter 3.2 . There can also be found information about the configuration in mixed environments (i.e. ADCQS, VIPS and PRID combinations).

2.3.3 Enter Site Information

Site information is entered via the Configuration Viewer.

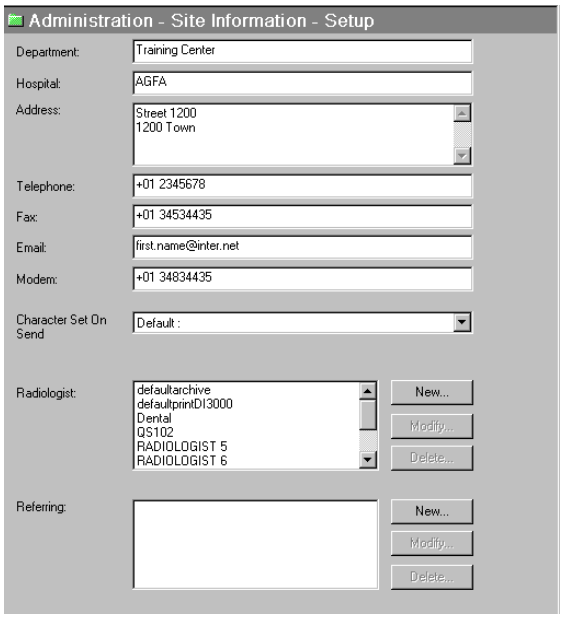
(26) Select
`<Setup>`
`<Site Information>`
`<Administration>`

ADC QS

Server

(27) Enter site information

Example:

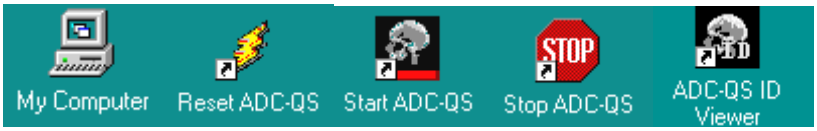


Default of “Character Set On Send“ has to be changed only for Asian languages.

2.3.4 Setup of a Secure User (optional – only on customer request)

The “Secure User Script” allows to create a user which has very limited access to NT-Operating System. Almost all icons are removed from the desktop and additionally the NT-Start Menu is reduced to the absolute minimum.

Desktop includes only the following icons:



NT-Start Menu of the “Secure User” is reduced to
Agfa → ADC QS → ID Viewer, Reset ADC QS, Start ADC QS, Stop ADC QS
In addition the right mouse button is deactivated on the NT-Desktop and it prevents the user, logged in with “Secure User” account, to access the Configuration Viewer.

However the ”Secure User” does not have any restrictions on application level. The “Secure User” is able to delete images from application or to reject studies. The security is only provided on NT-Operating System and Configuration level.

The installation sequence of “Secure User” in relation to the printers is important.

- First configure all printers on Server (with “compas” account)
- Add “Secure User” account on Server
- Add the same “Secure User” account on Client. During creation of the account the printer connections are setup automatically as network printers.

If you want to add a printer later on you have to perform the following steps:

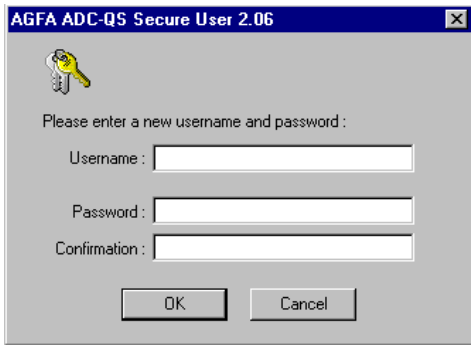
- Configure printer to be added on the Server (with “compas” account)
- Remove “Secure User” on the Client only
- Re-install “Secure User” on Client again. In this way the new printer is added to the “Secure User” account.

2.3.4.1 Add Secure User

Only one account for a Secure User has to be created. It has to be the same account on ADC QS Server and Client.

(28) Select

```
Start
  AGFA
    ADC-QS
      Tools
        Add Secure User
```



(29) Define Secure User with a corresponding password. Confirm the password by clicking <OK>

(30) System restarts two times. During restarts do not start any other application.

(31) Auto logon is switched off now. NT Login Window appears after every restart.

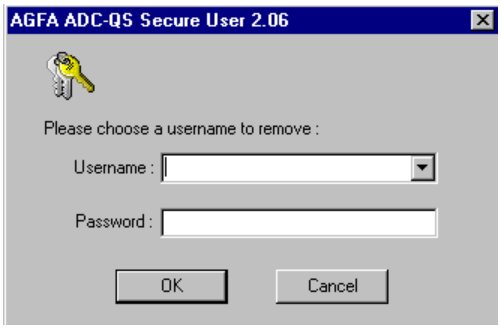
2.3.4.2 Remove Secure User

If you want to change a complete Secure User account, it is best first to remove current Secure User and then add a new one. This has to be done both on Server and Client.
This procedure must also be applied on the Client only if a printer should be added to the Secure User account (see above).

(32) Check that you are logged in as “compas"

(33) Select

```
Start
  AGFA
    ADC-QS
      Tools
        Remove Secure User
```



(34) Select the Secure User, you would like to delete, from pull down menu and fill in corresponding password. Confirm the password by clicking <OK>

(35) System restarts two times. Always login as “compas" account. If the last Secure User has been deleted from the system, Auto logo is activated again.

3 Set-up Procedure for ADC QS Client Station

As the ADC QS Client Station is staged in AGFA, all the necessary software is preloaded and the system is ready to work. On site software installation after setup is not necessary.

3.1 Login to the ADC QS Client Station

(1) Make sure that the ADC QS Server Station is up and running.

(2) Switch on the Client Station.
The NT boot sequence starts. The ADC QS client station is set to auto-logon to NT.

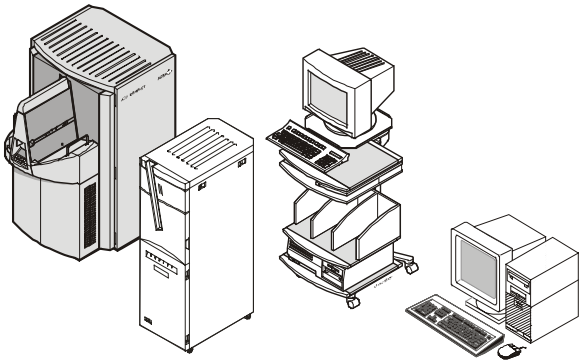
(3) Start ADC QS application

(4) Click <OK> to login. No username or password required.
The ADC QS application is ready for use now.

3.2 Integrating the ADC QS Client Station into an independent, pure ADC Network

In this case the ex factory settings are used.

A new configuration of the machine **is not** required.



514503aa.cdr

3.3 Integrating the ADC QS Client Station into an existing Network

The following actions have to be performed to integrate the ADC QS Client into an already existing Network.

- Adapt “TCP / IP Protocol” settings in Windows NT
- Connect ADC QS Client Station to Server Station
- Configure Devices (ID-Viewer)

Please note that Service Manual only refers to English NT. If a different language is used please find the corresponding labels in your used language.

3.3.1 Adapt “TCP / IP Protocol” settings to Windows NT

(1) Stop ADC QS Application by clicking on Stop ADC QS icon on desktop

(2) Select
`<Start>`
`<Settings>`
`<Control Panel>`

(3) Select
`<Network>`
tab `<Identification>`
to change the computer name and confirm with `<OK>`.

(4) Select
`<Protocols>`
`<TCP/IP Protocol>`
`<Properties>`

(5) Select
tab `<IP-Address>`.
Select always `“Specify an IP_address”`.
Enter requested data: IP_address, subnet mask and default router if applicable.

Do never obtain the IP_address via DHCP. With DHCP it may change, which would result in the effect that the ADC QS Client is not able anymore to reach the ADC QS Server.

Be aware that the change of the computer name automatically changes also the hostname. The hostname is automatically filled in, written in lower case characters, but it has to be in caps. Therefore enter the hostname in caps.

ADC QS Client

(6) Select
tab `<DNS>` and enter hostname in caps (key sensitive) to the same name as the computer name is.

(7) Click <Close> to accept changes

(8) Click <Yes> when you are asked to restart your computer.
The IP_address is set now. ADC QS Client Station restarts.

(9) Login again

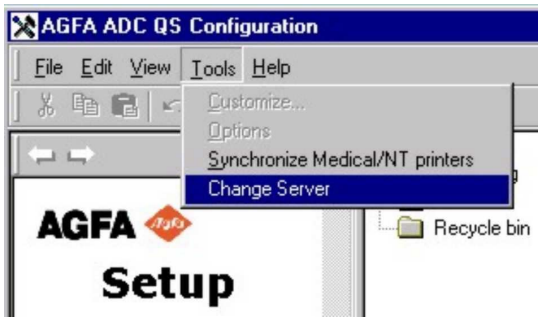
3.3.2 Connecting the Client Station to the ADC QS Server Station

If the Server Station has changed, a dialog appears automatically to which Server the Client should be connected to. In this case the following steps can be skipped.

(10) Select
<Start>
<Agfa>
<Adcqs>
<Configuration>
The Configuration Viewer login appears

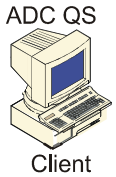
(11) Click <OK> to login (no user name or password required)
The Configuration Viewer starts up.

(12) Select
<Tools>
<Change Server>



(13) Enter computer name or IP_address of ADC QS Server Station and click <OK>

Change Server...
Your computer is currenlty connected to the server computer 10.6.5.142.
Please enter the new Server computer name:
OK
Cancel



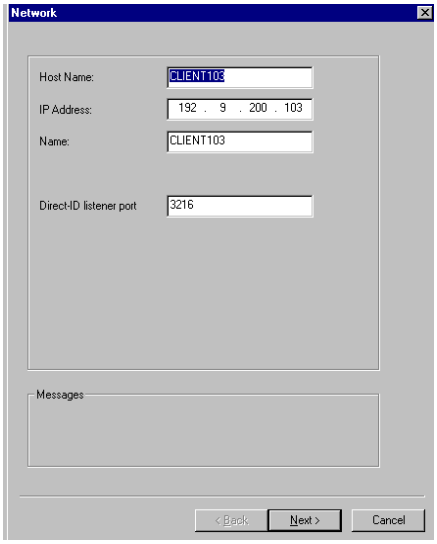
3.3.3 Configure Devices

(14) To **Configure ID-Viewer** select at Configuration Viewer

```
<Setup>
    <Devices>
        <Identification Devices>
            <ID Viewers>
```

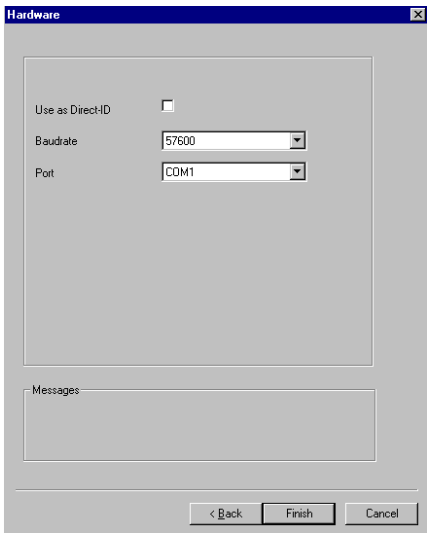
(15) Double click on `<Add new ID Viewer>`

(16) Enter host name in caps (key sensitive), IP-Address and name

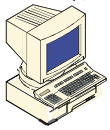


click `<Next>`

(17) Check respectively uncheck “Use Direct_ID” check box.



ADC QS



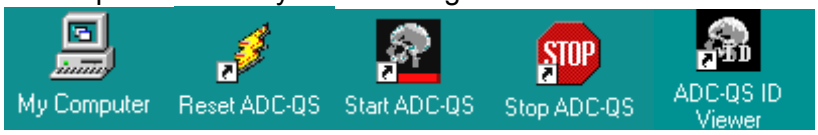
Client

(18) Usage of Configuration Viewer for further devices is described in “Configuration Viewer Software” - User Manual in chapter 3.2 of Service Documentation.

3.3.4 Setup of a Secure User (optional – only on customer request)

The “Secure User Script” allows to create a user which has very limited access to NT-Operating System. Almost all icons are removed from the desktop and additionally the NT-Start Menu is reduced to the absolute minimum.

Desktop includes only the following icons:



NT-Start Menu of the Secure User is reduced to
Agfa → ADC QS → ID Viewer, Reset ADC QS, Start ADC QS, Stop ADC QS.
In addition the right mouse button is deactivated on the NT-Desktop and it prevents the user, logged in with “Secure User” account, to access the Configuration Viewer.

In addition it prevents the user, logged in with “Secure User” account, to access the Configuration Viewer.

However the ”Secure User” does not have any restrictions on application level. “Secure User” is able to delete images from the application or reject studies. The security is only provided on NT-Operating System and Configuration level.

The installation sequence of the “Secure User” in relation to the printers is important.

- First configure all printers on Server (with “compas” account)
- Add “Secure User” account on Server
- Add same “Secure User” account on Client. During creation of the account the printer connections will be setup automatically as network printers.

If you want to add a printer later on you have to perform the following steps:

- Configure printer to be added on the Server (with “compas” account)
- Remove “Secure User” on the Client only
- Re-install “Secure User” on Client again. In this way the new printer is added to the “Secure User” account.

3.3.4.1 Add Secure User

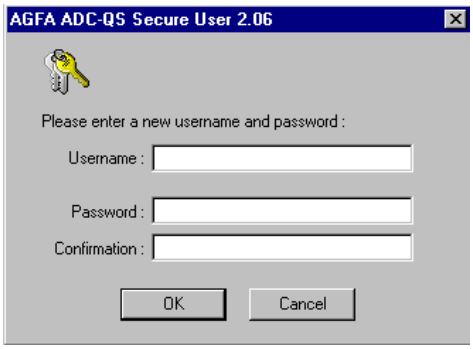
Only one account for a “Secure User” has to be created. It has to be the same account on ADC QS Server and Client.

ADC QS

Client

(19) Select

```
Start
  AGFA
    ADC-QS
      Tools
        Add Secure User
```



(20) Define “Secure User” with a corresponding password. Confirm the password by clicking <OK>

(21) System restarts two times. During restarts do not start any other application.

(22) Auto logon is switched off now. NT Login Window appears after every restart.

3.3.4.2 Remove Secure User

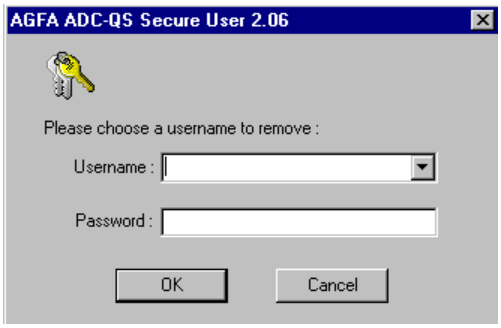
If you want to change a complete “Secure User” account it is best first to remove current “Secure User” and then add a new one. This has to be done both on Server and Client.

This procedure must also be applied on Client only if a printer should be added to the “Secure User” account (see above).

(23) Check that you are logged in as “compas"

(24) Select

```
Start
  AGFA
    ADC-QS
      Tools
          Remove Secure User
```



ADC QS

Client

(25) Select Secure User, you would like to delete, from pull down menu and fill in corresponding password. Confirm the password by clicking <OK>

(26) System restarts two times. Always login as “compas" account. If the last Secure User has been deleted from the system, Auto logon is activated again.

4 Completing Actions for ADC QS Server and Client

4.1 System Test

Preconditions

All ADC Components have to be put into operation and must be obtainable via Ethernet.

(1) Identify a cassette with ID Viewer and send it to ADC QS Server Station.

(2) Check if the image arrives at Server Station and is displayed on the Client Station as well.

(3) Print an image on the default printer or send the image to a destination.

4.2 Configuration Cloning of Server and Viewer

If you have to setup more then one Viewer and / or Server it is possible to save some configuration work by cloning configuration. For more detailed information see chapter 3.2 of Service Documentation.

4.3 Installing ADC QS into an existing NT Domain

The integration into an NT-Domain maybe a request from the hospital. For more detailed information see chapter 3.2 of Service Documentation.

4.4 Creation of an ADC QS Restore CD

Create one Restore CD for the ADC QS Server System and one Restore CD for each Client System. (From Restore Toolkit version 2.5 on it is also possible to create a Restore CD of the client, if a CD writer is available.)
The procedure is the same for server and client as described in chapter 3.2 of Service Documentation.